MANAGING CONGESTION AND POTENTIAL TRAFFIC GROWTH IN AN INFORMATION NETWORK

ABSTRACT OF THE DISCLOSURE

Traffic demands are routed across links of an information network so as to avoid congestion and allow for future traffic growth. Traffic demands from a source node to a destination node of the network are monitored, including bandwidths associated with each of the demands. For each demand, and for a given link of the network, that portion of the bandwidth associated with each traffic demand which is provided by the given link, is determined. A maximum value of link utilization among all links of the network is then determined, wherein link utilization is defined as the amount of bandwidth used by all traffic demands routed through a given link with respect to a total capacity of the link. Traffic demands are then routed across the links of the network in such a manner as to minimize the maximum value of link utilization.